

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

Application Number	09/348,515
Filing Date	July 7, 1999
First Named Inventor	Murakami et al.
Art Unit	3623
Examiner Name	Irshadullah, H.
Attorney Docket Number	22845-038

Sheet 1 of 12

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite <sup>1</sup> No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
H.	1	US- 6,427,913	08-06-2002	Maloney et al.	
H.	2	US- 6,340,935	01-22-2002	Hall	
H.	3	US- 6,336,295	01-08-2002	Takei et al.	
H.	4	US- 6,317,720	11-13-2001	Murakami et al.	
H.	5	US- 6,304,223	10-16-2001	Hilton et al.	
H.	6	US- 6,278,936	08-21-2001	Jones	
H.	7	US- 6,253,980	07-03-2001	Murakami et al.	
H.	8	US- 6,253,129	06-26-2001	Jenkins et al.	
H.	9	US- 6,249,233	06-19-2001	Rosenberg et al.	
H.	10	US- 6,225,890	05-01-2001	Murphy	
H.	11	US- 6,185,487	02-06-2001	Kondo et al.	
H.	12	US- 6,181,991	01-30-2001	Kondo et al.	
H.	13	US- 6,185,501	02-06-2001	Smith et al.	
H.	14	US- 6,157,315	12-05-2000	Kokubo et al.	
H.	15	US- 6,154,006	11-28-2000	Hatanaka et al.	
H.	16	US- 6,240,365	05-29-2001	Bunn	
H.	17	US- 6,133,707	10-17-2000	Kikuchi et al.	
H.	18	US- 6,129,371	10-10-2000	Powell	
H.	19	US- 6,089,431	07-18-2000	Heyworth	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite <sup>1</sup> No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
H.	20	EP 0 212 842 A1	03-04-1987	Dobson		
H.	21	EP 0 451 482 A1	10-16-1991	Hirshberg		
H.	22	EP 0 653 732 A1	05-17-1995	Laurens et al.		
H.	23	EP 0 694 885 A2	01-31-1996	Tagami et al.		
H.	24	EP 0 877 341 A2	11-11-1998	Kokubu et al.		
H.	25	EP 0 708 427 A2	04-24-1996	Parodi et al.		

Examiner  
Signature

M. IRSHADULLAH

Date  
Considered

8/4/03

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**C mplete if Known**

Application Number	09/348,515
Filing Date	July 7, 1999
First Named Inventor	Hiroshi Murakami et al.
Art Unit	3623
Examiner Name	Irshadullah, H.
Attorney Docket Number	22845-038

Sheet 2 of 12

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
H.	26	US- 6,078,850	06-20-2000	Kane et al.	
H.	27	US- 5,995,898	11-30-1999	Tuttle	
H.	28	US- 5,995,013	11-30-1999	Yoshizawa et al.	
H.	29	US- 5,945,919	08-31-1999	Trask	
H.	30	US- 5,922,040	07-13-1999	Prabhakaran	
H.	31	US- 5,908,453	06-01-1999	Tabata et al.	
H.	32	US- 5,869,950	02-09-1999	Hoffman, Jr. et al.	
H.	33	US- 5,838,251	11-17-1998	Brinkmeyer et al.	
H.	34	US- 5,812,070	09-22-1998	Tagami et al.	
H.	35	US- 5,803,215	09-08-1998	Henze et al.	
H.	36	US- 5,790,976	08-04-1998	Boll et al.	
H.	37	US- 5,737,710	04-07-1998	Anthonyson	
H.	38	US- 5,751,973	04-12-1998	Hassett	
H.	39	US- 5,726,885	03-10-1998	Klein et al.	
H.	40	US- 5,721,550	02-24-1998	Lopez	
H.	41	US- 5,686,895	11-11-1997	Nakai et al.	
H.	42	US- 5,664,113	09-02-1997	Worger et al.	
H.	43	US- 5,614,804	03-25-1997	Kayano et al.	
H.	44	US- 5,612,608	03-18-1997	Ishiguro et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
H.	45	EP 0 991 031 A2	04-05-2000	Ogura et al.		
H.	46	EP 1 067 498 A1	01-10-2001	Murakami et al.		
H.	47	EP 1 067 481 A2	01-10-2001	Murakami et al.		
H.	48	EP 1 067 480 A2	01-10-2001	Murakami et al.		
H.	49	EP 0 997 861 A2	05-03-2000	Murakami et al.		
H.	50	EP 1 011 085 A2	06-21-2000	Schroter		

Examiner  
Signature

M. IRSHADULLAH

Date  
Considered

8/4/03

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

3

of

12

**Complete if Known**

Application Number	09/348,515
Filing Date	July 7, 1999
First Named Inventor	Murakami et al.
Art Unit	3623
Examiner Name	Irshadullah, H.
Attorney Docket Number	22845-038

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite <sup>1</sup> No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
H.	51	US- 5,579,973	12-03-1996	Taft	
H.	52	US- 5,557,254	09-17-1996	Johnson et al.	
H.	53	US- 5,493,694	02-20-1996	Vlcek et al.	
H.	54	US- 5,366,338	11-22-1994	Mortensen	
H.	55	US- 5,357,143	10-18-1994	Lehr et al.	
H.	56	US- 5,289,369	02-22-1994	Hirshberg	
H.	57	US- 5,265,006	11-23-1993	Asthana et al.	
H.	58	US- 5,206,643	04-27-1993	Eckelt	
H.	59	US- 5,066,034	11-19-1991	Carr	
H.	60	US- 4,994,714	02-19-1991	Hoekman et al.	
H.	61	US- 4,777,646	10-11-1988	Harris	
H.	62	US- 4,776,003	10-04-1988	Harris	
H.	63	US- 4,719,460	01-12-1988	Takeuchi et al.	
H.	64	US- 4,692,762	09-08-1987	Lewiner et al.	
H.	65	US- 4,620,429	11-04-1986	Quillen	
H.	66	US- 4,360,875	11-23-1982	Behnke	
H.	67	US- 4,353,055	10-05-1982	Kawakatsu et al.	
H.	68	US- 3,906,447	09-1975	Crafton	
H.	69	US- 3,858,775	01-1975	Haas	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite <sup>1</sup> No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
H.	70	EP 0 179 160	04-30-1996	Wuttke		
H.	71	EP 0 307 485 B1	06-08-1994	Kimura et al.		
H.	72	EP 0 147 284 B1	07-03-1985	Lewiner et al.		
H.	73	EP 0 323 326	07-05-1989	Brisson		
H.	74	EP 0 433 740 B1	06-26-1991	Wasmuth et al.		
H.	75	EP 0 309 318	12-23-1992	Brisson		

Examiner  
Signature

M. IRSHADULLAH

Date  
Considered

8/4/03

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

Application Number	09/348,515
Filing Date	July 7, 1999
First Named Inventor	Murakami et al.
Art Unit	3623
Examiner Name	Irshadullah, H.
Attorney Docket Number	22845-038

Sheet

4

of

12

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite <sup>1</sup> No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
H.	76	US- 3,655,397	05-1972	Di Napoli et al.	
H.	77	US- 3,624,608	11-30-1971	Altman et al.	
H.	78	US- 1,223,258	04-17-1917	Cooper	
H.	79	US- D 374, 208	10-01-1996	Eva Jr.	
H.	80	US- 2003/0014302 A1	01-16-2003	Jablin	
H.	81	US- 4,495,484	01-22-1995	Kawakatsu, et al.	
H.	82	US- 3,997,044	12-14-1976	Schasser	
H.	83	US- 4,438,426	03-20-1984	Adkins	
H.	84	US- 3,742,453	06-26-1973	Polylo	
H.	85	US- 4,072,859	02-07-1978	McWaters	
H.	86	US- 3,754,122	08-21-1973	Di Napoli et al.	
H.	87	US- 3,757,290	09-04-1973	Ross	
H.	88	US- 5,337,046	08-09-1994	Graseet	
H.	89	US- 5,168,451	12-01-1992	Bolger	
H.	90	US- 5,604,676	02-18-1997	Penzias	
H.	91	US- 5,717,387	02-10-1998	Suman et al.	
H.		US-			
H.		US-			
H.		US-			

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite <sup>1</sup> No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
H.	92	DE 197 28 885 A1	01-14-1999	Albers		T
H.	93	DE 298 11 292 U1	01-07-1999	Karahan		T
H.	94	DE 43 01 039	07-21-1994	Latsch		
H.	95	DE 42 27 969	03-03-1994	Lemke et al.		T
H.	96	DE 40 24 186 A1	02-06-1992	Scharf		T
H.	97	FR 2 732 144	09-27-1996	Bertrand et al.		

Examiner  
Signature

M. IRSHADULLAH

Date  
Considered

8/4/03

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

**(Use as many sheets as necessary)**

**Complete if Known**

Application Number	09/348,515
Filing Date	July 7, 1999
First Named Inventor	Murakami et al.
Art Unit	3623
Examiner Name	Irshadullah, H.
Attorney Docket Number	22845-038

Sheet	5	of	12
-------	---	----	----

## U. S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	a T
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
H.	98	FR 2 712 715	05-17-1995	Laurens et al		
H.)	99	FR 2 692 064	12-10-1993	Parent		
H.	100	FR 2 656 450	06-28-1991	Bernard		
H.)	101	FR 2 625 954	07-26-1989	Parienti		
H.	102	CA 2 227 664	07-21-1998	Bunn		
H.	103	JP 10-261199	09-29-1998	Masaki et al.		T

Examiner Signature	M. IRSHADULLAH	Date Considered	8/4.03
-----------------------	----------------	--------------------	--------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.<sup>1</sup> Applicant's unique citation designation number (optional).<sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).<sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.<sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.<sup>5</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

*If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.*

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	09/348,515
				Filing Date	July 7, 1999
				First Named Inventor	Murakami et al.
				Art Unit	3623
				Examiner Name	Irshadullah, H.
				Attorney Docket Number	22845-038
Sheet	6	of	12		

[illegible]

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
H.	104	JP 10-255162	09-25-1998	Hiroaki et al.		T
H.	105	JP 10-266191	09-29-1998	Masaki et al.		
H.	106	JP 10-255191	09-25-1998	Hiroaki et al.		T
H.	107	JP 2001-67581	03-16-2003	Murakami et al.		
H.	108	JP 11-127788	05-18-1999	Kameda		T
H.	109	JP 08-138199	05-31-1996	Katsumi et al.		T

Examiner Signature	M. IRS HADULLAH	Date Considered	8/4.03
-----------------------	-----------------	--------------------	--------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

*If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.*

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO		<b>C mplete if Kn wn</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application	09/348,515
		Filing Dat	July 7, 1999
		First Named Inventor	Murakami et al.
		Art Unit	3623
		Examiner Name	Irshadullah, H.
Sheet 7	of 12	Attorney Docket Number	22845-038

U.S. PATENT DOCUMENTS					
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number- Kind Code <sup>2</sup> (if known)			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
H.	110	EP 0 509 776	10-21-1992	Tsuda et al.		
H.	111	GB 2 291 235 A	02-29-1996	Teng		
H.	112	GB 2 271 081	10-18-1989	Muldoon		
H.	113	GB 2 146 154	04-11-1985	Banks		
H.	114	DE 40 24 186	02-06-1992	Scherf		
H.	115	DE 22 10 088	10-05-1972	Schimmelpenninck		
H.	116	DE 38 05 810	09-07-1998	Amend		T
H.	117	DE 42 27 969	03-03-1994	Lemke et al.		
H.	118	DE 40 32 198	04-23-1992	Ritter		
H.	119	DE 197 40 602	03-18-1999	Koehler et al.		T

Examiner Signature	M. IRSHADULLAH	Date Considered	8/4.03
-----------------------	----------------	--------------------	--------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional) 2 See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO		<b>C mplete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Applicati n	09/348,515
		Filing Dat	July 7, 1999
		First Named Inventor	Murakami et al.
		Art Unit	3623
		Examiner Name	Irshadullah, H.
Sheet 8	of 12	Attorney Docket Number	22845-038

U.S. PATENT DOCUMENTS					
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number- Kind Code <sup>2</sup> (if known)			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS							
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
		Country Code <sup>3</sup>	-Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	120	DE	44 29 852 A1	02-29-1996	Klein		
	121	DE	100 33 341 A1	01-24-2002	Biesinger et al.		T
	122	DE	195 08 369 C1	03-07-1996	Lenart et al.		
	123	DE	195 08 370 A1	09-12-1996	Rick et al.		T
	124	DE	195 21 902 A1	12-19-1996	Beier		
	125	FR	2 126 602	06-10-1997	Grihangne		
	126	FR	2 535 491	05-04-1984	Jollivet		T
	127	FR	2 232 064				
	128	FR	2 612 319	05-29-1992	Chapelle		T
	129	FR	2 662 285	11-22-1991	Vernaudon		T

Examiner Signature	M. IRSHADULLAH	Date Considered	8/4.03
-----------------------	----------------	--------------------	--------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional) 2 See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application	09/348,515
		Filing Date	July 7, 1999
		First Named Inventor	Murakami et al.
		Art Unit	3623
		Examiner Name	Irshadullah, H.
Sheet 9 of 12	Attorney Docket Number	22845-038	

U.S. PATENT DOCUMENTS					
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number- Kind Code <sup>2</sup> (if known)			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS							
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
		Country Code <sup>3</sup>	-Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
H.	130	WO	92/22043	12-10-1992	Weixler		
H.	131	WO	85/01812	04-25-1985	Shilton et al.		
H.	132	WO	84/03785	09-27-1984	Ernst		
H.	133	WO	95/21435	08-04-1995	Rising		
H.	134	WO	99/44186	09-02-1999	Jaffe		
H.	135	JP	05-133195	05-28-1993	Nagayama et al.		T
H.	136	JP	10-208195	08-7-1998	Kagawa et al.		T
H.	137	JP	11-201762	07-30-1999	Ibara		
H.	138	JP	11-127750	03-20-73			T
H.	139	JP	2001067581 A	03-16-2001	Murakami		T

Examiner Signature	M. IRSHADULLAH	Date Considered	8/4.03
--------------------	----------------	-----------------	--------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional) 2 See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application	09/348,515
		Filing Date	July 7, 1999
		First Named Inventor	Murakami et al.
		Art Unit	3623
		Examiner Name	Irshadullah, H.
Sheet 10 of 12	Attorney Docket Number	22845-038	

U.S. PATENT DOCUMENTS					
Examiner Initials <sup>2</sup>	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number- Kind Code <sup>2</sup> (if known)			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials <sup>2</sup>	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>3</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	140	FR 2 212 064	07-19-1979	Michard		
	141	JP 04-133195				

Examiner Signature	M. IRSHADULLAH	Date Considered	8/4/03
--------------------	----------------	-----------------	--------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional) 2 See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>		<b>C mplete if Known</b>			
		Applicati n Number	09/348,515		
		Filing Dat	July 7, 1999		
		First Named Inv ntor	Murakami et al.		
		Art Unit	3623		
		Examiner Name	Irshadullah, H.		
Sheet	11	of	12	Attorney Docket Number	22845-038

OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite, No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
h.	142	European Patent Office Search Report of 01305580.1-2215, November 7, 2001, 2 pages	
h.	143	European Patent Office Search Report of 99250392, February 9, 2001, 3 pages	
h.	144	European Patent Office Search Report of 00305739, October 20, 2000, 2 pages	
h.	145	European Patent Office Search Report of 95304203, March 8, 1996, 1 page	
h.	146	European Patent Office Search Report of 94402568, December 12, 1994, 1 page	
h.	147	European Patent Office Search Report of 91102927, June 13, 1991, 1 page	
h.	148	European Patent Office Search Report of 86305442, October 30, 1986, 3 pages	
h.	149	Australian Patent Office Search Report of SG 20003722-6, January 24, 2002, 4 pages	
h.	150	Australian Patent Office Search Report of SG 20003721-8, January 24, 2002, 2 pages	
h.	151	Australian Patent Office Search Report of SG 200103958-5, November 19, 2002, 2 pages	

Examiner Signature	M. IRSHADULLAH	Date Considered	8/4.03
--------------------	----------------	-----------------	--------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. raw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, Washington, DC 20231.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	09/348,515
				Filing Date	July 7, 1999
				First Named Inventor	Hiroshi Murakami et al
				Art Unit	3623
Examiner Name	Irshadullah, H.				
Sheet	12	of	12	Attorney Docket Number	22845-038

OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite, No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
h.	152	United Kingdom Patent Office Search Report of GB9413527.4, September 1994, 1 page	
h.	153	<del>French Patent Office Search Report of FR-0005779, February 1, 2002, 2 pages</del>	
h.	154	French Patent Office Search Report of FR 0004270, June 29, 2001, 1 page	
h.	155	French Patent Office Search Report of FR 9503408, December 29, 1995, 1 page	
h.	156	French Patent Office Search Report of FR 94402568, December 12, 1994, 1 page	
h.	157	Praxitele web site=http://www-rocq.inria.fr/praxitele/welcome-angl.html?59, 31, Dec. 1997.	
h.	158	Bill Donahue, May 17, 2002, Cars You Drive for Just a Little While, Then It's Their Turn, New York Times, Coast), Pg.10	
h.	159	Matthew Barth; August 1999, Stimulation Model Performance Analysis of a Multiple Station Shared Vehicle System, Transportation Research, Issue 7C, Volume 4. Pages	

Examiner Signature	M. IRSHADULLAH	Date Considered	8/4/03
--------------------	----------------	-----------------	--------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.